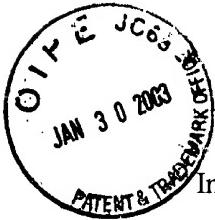


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Our Docket No.: 042390.P4264



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Yavatkar )  
Application No.: 09/041,979 )  
Filed: March 13, 1998 )  
For: Ensuring Quality of Service (QOS) )  
for a Multi-Media Call Through Call )  
Associated Individual Media Stream )  
Bandwidth Control )

) Examiner: Yao, K.

) Art Group: 2664

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APPEAL BRIEF  
IN SUPPORT OF APPELLANT'S APPEAL  
TO THE BOARD OF PATENT APPEALS AND INTERFERENCES

Sir:

Appellant hereby submits this Brief in triplicate in support of its appeal from a final decision by the Examiner, mailed August 22, 2002, in the above-referenced Application. Appellant respectfully requests consideration of this appeal by the Board of Patent Appeals and Interferences for allowance of the above-captioned patent application.

An oral hearing is not desired.

FIRST CLASS CERTIFICATE OF MAILING  
(37 C.F.R. § 1.8 (a))

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to the Assistant Commissioner for Patents, Washington, DC 20231.

On January 24, 2003 Date of Deposit

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Name of Person Mailing Correspondence

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**I.      REAL PARTY IN INTEREST**

The invention is assigned to Intel Corporation of 2200 Mission College Boulevard, Santa Clara, California 95052.

**II.     RELATED APPEALS AND INTERFERENCES**

To the best of Appellant's knowledge, there are no appeals or interferences related to the present appeal that will directly affect, be directly affected by, or have a bearing on the Board's decision.

**III.    STATUS OF THE CLAIMS**

Claims 1-33 are currently pending in the above-referenced application. Claims 1-33 stand rejected under U.S.C. §102(b) as being anticipated by Jurkevich et al., U.S. Patent No. 5,164,938 ("Jurkevich") in the Final Office Action mailed August 22, 2002.

**IV.     STATUS OF AMENDMENTS**

In response to the Final Office Action mailed on August 22, 2002, rejecting claims 1-33 under 35 U.S.C. §102(b), Appellant filed an Amendment After Final Office Action under 37 C.F.R. § 1.116 on September 23, 2002. Also, Appellant filed a Notice of Appeal on October 24, 2002 in response to an Advisory Action mailed on October 10, 2002. A copy of all claims on appeal is attached hereto as an Appendix of Claims.

## V. SUMMARY OF THE INVENTION

According to one embodiment, a storage medium is described. A plurality of programming instructions that are executable by a processor are stored within the storage medium. When executed, the programming instructions implement a multi-media call application that effectuate quality of service (QOS) guaranty for a packet based multi-media call (CALL) through call associated individual media stream bandwidth control.

In a further embodiment, the programming instructions implement a bandwidth reservation service that requests a sub-net bandwidth manager (SBM) to allocate a portion of reserved bandwidth for a CALL to an individual media stream of the CALL, providing the SBM with call level information to allow the SBM to associate the individual media stream of the CALL with the reserved bandwidth of the CALL. In addition, the SBM manages network bandwidth of a local area network (LAN) through which the CALL is conducted.

In a further embodiment, a method is described. The method includes a multi-media call application first reserving bandwidth for media streams of a CALL at a call level with a SBM that manages network bandwidth of a LAN through which the CALL is to be conducted, and the multi-media call application subsequently causing the SBM to allocate the reserved bandwidth for the CALL to individual media streams of the CALL, causing call level information to be provided to the SBM to enable the SBM to associate the individual media streams of the CALL with the reserved bandwidth of the CALL.

In still a further embodiment, an apparatus is disclosed. The apparatus comprises a storage medium having stored within a plurality of programming instructions implementing a multi-media call application that effectuates QOS guaranty for a CALL

using call associated individual media stream bandwidth control, and a processor coupled to the storage medium that operates to execute the programming instructions.

In another embodiment, the storage medium also stores a plurality of programming instructions implementing a bandwidth reservation service that requests a SBM to allocate a portion of reserved bandwidth for a CALL to an individual media stream of the CALL, providing the SBM with call level information to allow the SBM to associate the individual media stream of the CALL with the reserved bandwidth of the CALL. The SBM also manages network bandwidth of a LAN through which the CALL is conducted.

In a further embodiment, a network is disclosed. The network includes a first client computer, a medium coupled to the first client, and a second client computer coupled to the medium. The second client computer effectuates QOS guaranty for a CALL to the first client computer through call associated individual media stream bandwidth control.

**VI. ISSUES PRESENTED**

Whether claims 1-33 are patentable over *Jurkevich* under 35 U.S.C. §102(b).

**VII. GROUPING OF CLAIMS**

The claims do not stand or fall together.

For the purposes of this appeal:

Claims 1, 7, 20, 29 and 30 stand or fall together as Group I;

Claims 2-6, 10-17, 21-28 and 31-33 stand or fall together as Group II; and

Claims 8, 9, 18 and 19 stand or fall together as Group III.

Reasons for separate patentability of the above indicated Claim Groups I, II and III are presented in the arguments section pursuant to 37 C.F.R. § 1.192(c)(7).

## VIII. ARGUMENT

### 1. Claim Group I

**THE PENDING CLAIMS WERE IMPROPERLY REJECTED  
UNDER 35 U.S.C. § 102(b) BECAUSE JURKEVICH DOES NOT  
DISCLOSE PROGRAMMING INSTRUCTIONS THAT  
IMPLEMENT A MULTI-MEDIA CALL SOFTWARE  
APPLICATION THAT EFFECTUATE QUALITY OF SERVICE  
GUARANTY**

Appellant respectfully submits that *Jurkevich* fails to anticipate the claimed invention for the reasons set forth below.

Each claim in Claim Group I recites an element that is not disclosed in *Jurkevich*.

For example, Appellant's claim 1 recites the following:

A storage medium having stored therein a plurality of programming instructions executable by a processor, wherein when executed, the programming instructions implement a multi-media call application that effectuate quality of service (QOS) guaranty for a packet based multi-media call (CALL) through call associated individual media stream bandwidth control.

Appellant's claim 20 recites:

An apparatus comprising:  
a storage medium having stored therein a plurality of programming instructions implementing a multi-media call application that effectuates quality of service (QOS) guaranty for a packet based multi-media call (CALL) using call associated individual media stream bandwidth control; and  
a processor coupled to the storage medium that operates to execute the programming instructions.

Appellant's claim 29 recites:

A network comprising:  
a first client computer;  
a medium coupled to the first client; and  
a second client computer, coupled to the medium, that effectuates quality of service (QOS) guaranty for a packet based multi-media call (CALL) to the first client

computer through call associated individual media stream bandwidth control.

*Jurkevich* describes a method and system for transmitting information during call connections between a multiplicity of subscribers as components of traffic in an integrated services network (ISN). The information traffic consists of a multiplicity of media types according to the different subscribers including voice, video and data traffic component types. See *Jurkevich* at Abstract. A plurality of traffic component types in the form of portions of information streams to be transmitted from subscribers at an entry point of the ISN during respective call connections are assembled into each of a sequence of composite frames of variable size for transmission through the ISN (Abstract).

The traffic component types assembled into each of the composite frames are limited to those destined for subscribers at the same exit point of the ISN. Each composite frame is configured with the traffic component types assigned to respective separate groups of adjacent channels of predetermined bandwidth with each group limited to channels transporting traffic components of the same type and each channel in a group dedicated to a particular subscriber of the respective traffic component type for the duration of its respective call connection. Bandwidth in the composite frames is selectively sized for reallocation among the various traffic component types during periods of traffic congestion (Abstract).

The Examiner asserts that:

Jurkevich et al. discloses a system for transmitting information during a multimedia call connection between EFPS 41 and EFPS 43 in Fig. 3; wherein the system is for dynamically bandwidth for each traffic component types, such as video, voice and data. Thus it effectuates quality of service for the multimedia call because it allows maximum bandwidth sharing and allocation, as a percentage of total link capacity,

without increasing the risks of call blocking and or unacceptable degradation of quality of service.

(See Final Office Action at page 2, paragraph 3).

Appellant submits, however, that despite the Examiner's characterization of the reference, nowhere in *Jurkevich* is there disclosed programming instructions that implement a multi-media call software application that effectuate quality of service guaranty. Therefore, Claim Group I is patentable over *Jurkevich*.

For the foregoing reasons, Appellant submits that the Examiner has failed to search and find a printed publication or patent that discloses the claimed invention as set forth in MPEP § 706.02(a).

Claims 7 and 30 depend from claims 1 and 29, respectively. Given that dependent claims necessarily include the limitations of the claims from which they depend, Appellant submits that the invention as claimed in claims 7 and 30 are similarly not anticipated by *Jurkevich*.

Thus, the Examiner erred in rejecting claims 1, 7, 20, 29 and 30 under U.S.C. § 102(b).

2. Claim Group II

**THE PENDING CLAIMS WERE IMPROPERLY REJECTED  
UNDER 35 U.S.C. § 102(b) BECAUSE JURKEVICH DOES NOT  
DISCLOSE PROGRAMMING INSTRUCTIONS THAT  
DETERMINE IF A SUB-NET BANDWIDTH MANAGER (SBM)  
THAT MANAGES NETWORK BANDWIDTH IS CONNECTED  
TO A LOCAL AREA NETWORK (LAN) THROUGH WHICH  
THE CALL IS CONDUCTED**

Claims 2-6, 10-17, 21-28 and 31-33 of Claim Group II are not anticipated under 35 U.S.C. §102(b) for the same reasons as given above with respect to Claim Group I and further due to the additional limitation of programming instructions determining if a sub-net bandwidth manager (SBM) that manages network bandwidth is connected to a local area network (LAN) through which the CALL is conducted.

Appellant's arguments made above with respect to the claims of Claim Group I apply equally to Claim Group II and are incorporated herein by reference. With respect to programming instructions, claim 2 recites:

The storage medium as set forth in Claim 1,  
wherein the programming instructions determine if a  
sub-net bandwidth manager (SBM) that manages  
network bandwidth is connected to a local area network  
(LAN) through which the CALL is conducted, and if  
the SBM is connected to the LAN, register the CALL  
with the SBM and reserve with the SBM bandwidth for  
subsequent allocation to media streams of the CALL.

Claim 10 recites:

A storage medium having stored therein a plurality of programming instructions executable by a processor, wherein when executed, the programming instructions implementing a bandwidth reservation service that requests a sub-net bandwidth manager (SBM) to allocate a portion of reserved bandwidth for a packet based multi-media call (CALL) to an individual media stream of the CALL, providing the SBM with call level information to allow the SBM to associate the individual media stream of the CALL with the reserved

bandwidth of the CALL, the SBM managing network bandwidth of a local area network (LAN) through which the CALL is conducted.

Claim 14 recites:

A method comprising:

(a) a multi-media call application first reserving bandwidth for media streams of a packet based multi-media call (CALL) at a call level with a sub-net bandwidth manager (SBM) that manages network bandwidth of a local area network (LAN) through which the CALL is to be conducted; and

(b) the multi-media call application subsequently causing the SBM to allocate the reserved bandwidth for the CALL to individual media streams of the CALL, causing call level information to be provided to the SBM to enable the SBM to associate the individual media streams of the CALL with the reserved bandwidth of the CALL.

Claim 21 recites:

The apparatus as set forth in Claim 20, wherein the programming instructions determine if a sub-net bandwidth manager (SBM) that manages network bandwidth is connected to a local area network (LAN) through which the CALL is conducted, and if the SBM is connected to the LAN, register the CALL with the SBM and reserve with the SBM bandwidth for subsequent allocation to media streams of the CALL.

Claim 26 recites:

An apparatus comprising:

a storage medium having stored therein a plurality of programming instructions implementing a bandwidth reservation service that requests a sub-net bandwidth manager (SBM) to allocate a portion of reserved bandwidth for a packet based multi-media call (CALL) to an individual media stream of the CALL, providing the SBM with call level information to allow the SBM to associate the individual media stream of the CALL with the reserved bandwidth of the CALL, the SBM managing network bandwidth of a local area network (LAN) through which the CALL is conducted; and

a processor coupled to the storage medium that operates to execute the programming instructions.

Claim 31 recites:

The network as set forth in Claim 30, wherein the second client computer comprises:

a multi-media application that effectuates the QOS guaranty; and

a network bandwidth reservation service that requests the SBM to allocate a portion of reserved bandwidth for the CALL to an individual media stream of the CALL, providing the SBM with call level information to allow the SBM to associate the individual media stream of the CALL with the reserved bandwidth of the CALL, the SBM managing network bandwidth of a local area network (LAN) through which the CALL is conducted.

Appellant submits that nowhere in *Jurkevich* is there disclosed a sub-net bandwidth manager that manages network bandwidth that is connected to a local area network (LAN). Moreover, *Jurkevich* does not disclose conducting a multi-media call through a LAN. Accordingly, Claim Group II is patentable over *Jurkevich*.

For the foregoing reasons, Appellant submits that the Examiner has failed to search and find a printed publication or patent that discloses the claimed invention as set forth in MPEP § 706.02(a).

Claims 3-6 depend from claim 2, claims 11-13 depend from claim 10, claims 15-17 depend from claim 14, claims 22-25 depend from claim 21, claims 27 and 28 depend from claim 26 and claims 32 and 33 depend from claim 31. Given that dependent claims necessarily include the limitations of the claims from which they depend, Appellant submits that the invention as claimed in claims 3-6, 11-17, 22-25, 27, 28, 32 and 33 are similarly not anticipated by *Jurkevich*.

Thus, the Examiner erred in rejecting claims 2-6, 10-17, 21-28 and 31-33 under U.S.C. § 102(b).

3. Claim Group III

**THE PENDING CLAIMS WERE IMPROPERLY REJECTED  
UNDER 35 U.S.C. § 102(b) BECAUSE JURKEVICH DOES NOT  
DISCLOSE PROGRAMMING INSTRUCTIONS FURTHER  
DETERMINE IF A CALL LEVEL ADMISSION CONTROL  
GATEKEEPER IS CONNECTED TO A LOCAL AREA  
NETWORK (LAN) THROUGH WHICH THE CALL IS TO BE  
CONDUCTED**

Claims 8, 9, 18 and 19 of Claim Group III are not anticipated under 35 U.S.C. §102(b) for the same reasons as given above with respect to Claim Group I and further due to the additional limitation of determining if a call level admission control gatekeeper is connected to a local area network (LAN) through which the CALL is to be conducted, and if the call level admission control gatekeeper is connected to the LAN, registering the CALL with the call level admission control gatekeeper.

In addition Claim Group III include the limitation of the registration being made in a manner that causes the call level admission control gatekeeper to determine whether to admit the CALL into the LAN without taking into consideration bandwidth requirement of the CALL. Appellant's arguments made above with respect to the claims of Claim Group I apply equally to Claim Group III and are incorporated herein by reference.

With respect to programming instructions, claim 8 recites:

The storage medium as set forth in Claim 7,  
wherein the programming instructions further  
determine if a call level admission control gatekeeper is  
connected to a local area network (LAN) through which  
the CALL is to be conducted, and if the call level  
admission control gatekeeper is connected to the LAN,  
register the CALL with the call level admission control  
gatekeeper, the registration being made in a manner that  
causes the call level admission control gatekeeper to  
determine whether to admit the CALL into the LAN  
without taking into consideration bandwidth  
requirement of the CALL.

Claim 18 recites:

The method as set forth in Claim 14, wherein the method further comprises (c) the multi-media call application determining if a call level admission control gatekeeper is connected to the LAN while establishing connection for the CALL.

Appellant submits that *Jurkevich* does not disclose a gatekeeper coupled to a LAN through which a call is to be connected. Further, *Jurkevich* does not disclose registering the call with the call level admission control gatekeeper. Moreover, *Jurkevich* fails to disclose a registration being made in a manner that causes the call level admission control gatekeeper to determine whether to admit the CALL into the LAN without taking into consideration bandwidth requirement of the CALL. Accordingly, Claim Group III is patentable over *Jurkevich*.

For the foregoing reasons, Appellant submits that the Examiner has failed to search and find a printed publication or patent that discloses the claimed invention as set forth in MPEP § 706.02(a).

Claim 9 depends from claim 8, and claim 19 depends from claim 18. Given that dependent claims necessarily include the limitations of the claims from which they depend, Appellant submits that the invention as claimed in claims 9 and 19 are similarly not anticipated by *Jurkevich*.

Thus, the Examiner erred in rejecting claims 8, 9, 18 and 19 under U.S.C. § 102(b).

## IX. CONCLUSION

Careful review of the Examiner's rejections shows that the Examiner has failed to provide any reference, or combination of references of the prior art that shows all of the elements of each appealed claim. Therefore, Appellant respectfully submits that all appealed claims in this application are patentable and were improperly rejected by the Examiner during prosecution before the United States Patent and Trademark Office. Appellant respectfully requests that the Board of Patent Appeals and Interferences overrule the Examiner and direct allowance of the rejected claims.

This brief is submitted in triplicate, along with a check for \$320.00 to cover the appeal fee for one other than a small entity as specified in 37 C.F.R. § 1.17(c). Please charge any shortages and credit any overcharges to our Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 1/23 2003

  
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**X. APPENDIX OF CLAIMS (37 C.F.R. § 1.192(c)(9))**

The claims on appeal read as follows:

1. A storage medium having stored therein a plurality of programming instructions executable by a processor, wherein when executed, the programming instructions implement a multi-media call application that effectuate quality of service (QOS) guaranty for a packet based multi-media call (CALL) through call associated individual media stream bandwidth control.
- 1 2. The storage medium as set forth in Claim 1, wherein the programming instructions determine if a sub-net bandwidth manager (SBM) that manages network bandwidth is connected to a local area network (LAN) through which the CALL is conducted, and if the SBM is connected to the LAN, register the CALL with the SBM and reserve with the SBM bandwidth for subsequent allocation to media streams of the CALL.
- 1 3. The storage medium as set forth in Claim 2, wherein the programming instructions make the determination, registration and bandwidth reservation for subsequent allocation to media streams of the CALL as an integral part of establishing a connection for the CALL.
- 1 4. The storage medium as set forth in Claim 2, wherein the programming instructions further subsequently cause the SBM to allocate the reserved bandwidth for the CALL to individual media streams of the CALL.
- 1 5. The storage medium as set forth in Claim 4, wherein the programming instructions invoke a bandwidth reservation service to request the SBM to allocate the reserved bandwidth for the CALL to individual ones of the media streams of the CALL, providing call level information to the bandwidth reservation service to enable the bandwidth reservation service to include the call level information in the requests for the SBM.

1       6.     The storage medium as set forth in Claim 5, wherein the programming instructions  
2     invoke the bandwidth reservation service to request the SBM to allocate a portion of the  
3     reserved bandwidth for the CALL to an individual media stream of the CALL while  
4     establishing an individual channel for the individual media stream during the CALL.

1       7.     The storage medium as set forth in Claim 1, wherein the CALL is an ITU-T H.323  
2     compatible video conference call.

1       8.     The storage medium as set forth in Claim 7, wherein the programming instructions  
2     further determine if a call level admission control gatekeeper is connected to a local area  
3     network (LAN) through which the CALL is to be conducted, and if the call level admission  
4     control gatekeeper is connected to the LAN, register the CALL with the call level admission  
5     control gatekeeper, the registration being made in a manner that causes the call level  
6     admission control gatekeeper to determine whether to admit the CALL into the LAN without  
7     taking into consideration bandwidth requirement of the CALL.

1       9.     The storage medium as set forth in Claim 8, wherein the programming instructions  
2     make the determination and conditional registration as an integral part of establishing a  
3     connection for the CALL.

1       10.    A storage medium having stored therein a plurality of programming instructions  
2     executable by a processor, wherein when executed, the programming instructions  
3     implementing a bandwidth reservation service that requests a sub-net bandwidth manager  
4     (SBM) to allocate a portion of reserved bandwidth for a packet based multi-media call  
5     (CALL) to an individual media stream of the CALL, providing the SBM with call level  
6     information to allow the SBM to associate the individual media stream of the CALL with the  
7     reserved bandwidth of the CALL, the SBM managing network bandwidth of a local area  
8     network (LAN) through which the CALL is conducted.

1       11.     The storage medium as set forth in Claim 10, wherein the programming instructions  
2     request the SBM to allocate a portion the reserved bandwidth of the CALL to the individual  
3     media stream of the CALL while establishing an individual channel for the individual media  
4     stream during the CALL.

1       12.     The storage medium as set forth in Claim 10, wherein the programming instructions  
2     are integral part of an operating system.

1       13.     The storage medium as set forth in Claim 10, wherein the CALL is an ITU-T H.323  
2     compatible video conference call.

1       14.     A method comprising:

2               (a) a multi-media call application first reserving bandwidth for media streams  
3     of a packet based multi-media call (CALL) at a call level with a sub-net bandwidth manager  
4     (SBM) that manages network bandwidth of a local area network (LAN) through which the  
5     CALL is to be conducted; and

6               (b) the multi-media call application subsequently causing the SBM to allocate the  
7     reserved bandwidth for the CALL to individual media streams of the CALL, causing call  
8     level information to be provided to the SBM to enable the SBM to associate the individual  
9     media streams of the CALL with the reserved bandwidth of the CALL.

1       15.     The method as set forth in Claim 14, wherein (a) is performed as an integral part of  
2     the multi-media call application establishing a connection for the CALL.

1       16.     The method as set forth in Claim 14, wherein (b) comprises the multi-media call  
2     application invoking a bandwidth reservation service to request the SBM to allocate the  
3     reserved bandwidth for the CALL to the individual media streams of the CALL, providing  
4     the bandwidth reservation service with call level information for inclusion in the requests to  
5     enable the SBM to associate the individual media streams of the CALL with the CALL.

1       17.     The method as set forth in Claim 16, wherein (b) is performed on a per individual  
2       media stream basis as an integral part of establishing an individual channel for the individual  
3       media stream.

1       18.     The method as set forth in Claim 14, wherein the method further comprises (c) the  
2       multi-media call application determining if a call level admission control gatekeeper is  
3       connected to the LAN while establishing connection for the CALL.

1       19.     The method as set forth in Claim 18, wherein if the call level admission control  
2       gatekeeper is connected to the LAN, (c) further comprises the multi-media application  
3       registering the CALL with the call level admission control gatekeeper in a manner that  
4       causes the gatekeeper to determine whether to admit the CALL into the LAN without taking  
5       into consideration bandwidth requirement of the CALL.

1       20.     An apparatus comprising:  
2               a storage medium having stored therein a plurality of programming instructions  
3               implementing a multi-media call application that effectuates quality of service (QOS)  
4               guaranty for a packet based multi-media call (CALL) using call associated individual media  
5               stream bandwidth control; and  
6               a processor coupled to the storage medium that operates to execute the programming  
7       instructions.

1       21.     The apparatus as set forth in Claim 20, wherein the programming instructions  
2       determine if a sub-net bandwidth manager (SBM) that manages network bandwidth is  
3       connected to a local area network (LAN) through which the CALL is conducted, and if the  
4       SBM is connected to the LAN, register the CALL with the SBM and reserve with the SBM  
5       bandwidth for subsequent allocation to media streams of the CALL.

1       22.     The apparatus as set forth in Claim 21, wherein the programming instructions make  
2     the determination, registration and bandwidth reservation for subsequent allocation to media  
3     streams of the CALL as an integral part of establishing a connection for the CALL.

1       23.     The apparatus as set forth in Claim 21, wherein the programming instructions further  
2     subsequently cause the SBM to allocate the reserved bandwidth for the CALL to individual  
3     media streams of the CALL.

1       24.     The apparatus as set forth in Claim 23, wherein the programming instructions invoke  
2     a bandwidth reservation service to request the SBM to allocate the reserved bandwidth for  
3     the CALL to individual ones of the media streams of the CALL, providing call level  
4     information to the bandwidth reservation service to enable the bandwidth reservation service  
5     to include the call level information in the requests for the SBM.

1       25.     The apparatus as set forth in Claim 24, wherein the programming instructions invoke  
2     the bandwidth reservation service to request the SBM to allocate a portion of the reserved  
3     bandwidth for the CALL to an individual media stream of the CALL while establishing an  
4     individual channel for the individual media stream during the CALL.

1       26.     An apparatus comprising:  
2                 a storage medium having stored therein a plurality of programming instructions  
3     implementing a bandwidth reservation service that requests a sub-net bandwidth manager  
4     (SBM) to allocate a portion of reserved bandwidth for a packet based multi-media call  
5     (CALL) to an individual media stream of the CALL, providing the SBM with call level  
6     information to allow the SBM to associate the individual media stream of the CALL with the  
7     reserved bandwidth of the CALL, the SBM managing network bandwidth of a local area  
8     network (LAN) through which the CALL is conducted; and

9           a processor coupled to the storage medium that operates to execute the programming  
10       instructions.

1       27.     The apparatus as set forth in Claim 26, wherein the programming instructions  
2       request the SBM to allocate a portion the reserved bandwidth of the CALL to the  
3       individual media stream of the CALL while establishing an individual channel for the  
4       individual media stream during the CALL.

1       28.     The apparatus as set forth in Claim 26, wherein the programming instructions are  
2       integral part of an operating system.

1       29.     A network comprising:  
2            a first client computer;

3            a medium coupled to the first client; and  
4            a second client computer, coupled to the medium, that effectuates quality of service  
5       (QOS) guaranty for a packet based multi-media call (CALL) to the first client computer  
6       through call associated individual media stream bandwidth control.

1       30.     The network as set forth in Claim 29, further comprising:  
2            a subnet bandwidth manager (SBM), coupled to the medium, that manages the  
3       bandwidth of the network.

1       31.     The network as set forth in Claim 30, wherein the second client computer comprises:  
2            a multi-media application that effectuates the QOS guaranty; and  
3            a network bandwidth reservation service that requests the SBM to allocate a portion  
4       of reserved bandwidth for the CALL to an individual media stream of the CALL, providing  
5       the SBM with call level information to allow the SBM to associate the individual media  
6       stream of the CALL with the reserved bandwidth of the CALL, the SBM managing network  
7       bandwidth of a local area network (LAN) through which the CALL is conducted.

1       32.     The network as set forth in Claim 31, wherein the network bandwidth reservation  
2     service, provides the SBM with call level information to allow the SBM to associate the  
3     individual media stream of the CALL with the reserved bandwidth of the CALL.

1       33.     The network as set forth in Claim 30, further comprising:  
2              a gateway coupled to the medium;  
3              a gatekeeper coupled to the medium; and  
4              a router coupled to the medium.